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ENDORSED - FILED
in the office of the Secretary of State
of the State of California

**CERTIFICATE OF AMENDMENT
OF
ARTICLES OF INCORPORATION
OF
WIRELESS SYSTEM TECHNOLOGIES, INC.**

FEB 25 2000

BILL JONES, Secretary of State

Yatish S. Pathak hereby certifies that:

1. He is the President and Secretary of WIRELESS SYSTEM TECHNOLOGIES, INC., a California corporation.

2. Article I of the Amended and Restated Articles of Incorporation of this corporation is amended to read as follows:

**"ARTICLE I
NAME**

The name of this Corporation is Soma Networks, Inc."

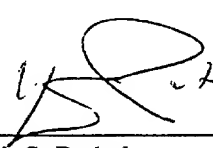
3. The foregoing amendment of Articles of Incorporation has been duly approved by the Board of Directors.

4. The foregoing amendment of the Articles of Incorporation has been duly approved by the required vote of the shareholders of the Corporation in accordance with sections 902 and 903 of the California Corporations Code.

The total number of outstanding shares of the Corporation entitled to vote with respect to the foregoing amendment and restatement was 18,595,000 shares of Common Stock, 462,500 shares of Series A Preferred Stock, and 1,051,410 shares of Series B Preferred Stock. The number of shares voting in favor of the amendment equaled or exceeded the vote required, such required vote being a majority of the outstanding shares of Common Stock and Preferred Stock voting together, a majority of the outstanding shares of Common Stock voting as a separate class, and a majority of the outstanding shares of Series A Preferred Stock voting as a separate class, and a majority of the outstanding shares of Series B Preferred Stock voting as a separate class. There are no Series C Preferred Stock outstanding.

The undersigned further declares under penalty of perjury under the laws of the State of California that the matters set forth in this certificate are true and correct of his own knowledge.

Dated: February 16, 2000.


Yatish S. Pathak
President and Secretary



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
William M. SNELGROVE, ET AL.)
Application No.: Not Yet Assigned) : Examiner: Unknown
Filed: Concurrently herewith) : Group Art Unit: Unknown
For: METHOD AND SYSTEM)
FOR NEGOTIATING)
TELECOMMUNICATION RESOURCES) March 13, 2001

Commissioner for Patents
Washington, D.C. 20231

PRELIMINARY AMENDMENT AND INFORMATION DISCLOSURE STATEMENT

Sir:

Prior to substantive examination, please amend the
application as follows:

IN THE SPECIFICATION:

Page 1, before line 1, kindly add the following new
paragraph:

--This application is a continuation of PCT/CA99/00872
(designating the U.S.), filed September 24, 1999, which claims

benefit of U.S. patent application No. 60/101,857, filed September 25, 1998.--

IN THE CLAIMS:

Please cancel Claims 1-26, without prejudice or disclaimer of the subject matter claimed therein.

Please add new Claims 27-105 , as follows:

27. A telecommunication system, comprising:

a first user interface and a second user interface interconnected by a telecommunications network;

said first user interface connected to at least one computer processor and electronic memory means for executing a first set of programming code that determines said first user interface's requirements for communicating with said second user interface;

said telecommunication network connected to said at least one computer processor and electronic memory means for executing a second set of programming code that determines available network resources of said network; and,

said at least one computer processor and electronic memory means operable to execute a third set of programming code that manages negotiations between said first set of programming code and said second set of programming code, said negotiations for determining terms of communication between said first user interface and said second user interface through said network, said negotiations based on a trusted negotiating discipline.

28. The telecommunication system of claim 27, wherein said trusted negotiating discipline is selectable by a user of said first user interface from a plurality of negotiating disciplines.

29. The telecommunication system of claim 27, wherein said requirements include the available hardware resources of said first user interface.

30. The telecommunication system of claim 27, wherein said requirements include the network resources needed by an application executing on said first user interface.

31. The telecommunication system of claim 30, wherein said application comprises voice telephony.

32. The telecommunication system of claim 27, wherein requirements include the costs that are to be assessed to said first user interface during said communication.

33. The telecommunication of system of claim 27, wherein said available network resources include presently available network resources.

34. The telecommunication of system of claim 27, wherein said available network resources include a cost of the network resources to be consumed during said communication.

35. The telecommunication of system of claim 27, wherein said available network resources include a prediction of network usage during said communication.

36. The telecommunication system of claim 27, wherein said first set of programming code is implemented using a software agent programmed with instructions that represent the interests of said first user interface.

37. The telecommunication system of claim 27, wherein said third set of programming code is implemented as a negotiation manager software agent.

38. The telecommunication system of claim 37, wherein said second set programming code is implemented as a single network software agent.

39. The telecommunication system of claim 27, wherein said second set of programming code is implemented as multiple network software agents, each network software agent being respective to a different telecommunication service provider.

40. The telecommunication system of claim 27, wherein said second user interface is connected to a computer processor and an electronic memory means for executing a fourth set of programming code that determines said second user interface's requirements for communicating with said first user interface; and said third set of programming code for further managing said negotiations so as to include said fourth set of programming code.

41. The telecommunication system of claim 40, wherein said requirements include the available hardware resources of said second user interface.

42. The telecommunication system of claim 40, wherein said requirements include the network resources needed by an application executing on said second user interface.

43. The telecommunication system of claim 42, wherein said application is voice telephony.

44. The telecommunication system of claim 40, wherein requirements include the costs that are to be assessed to said second user interface (14) during said communication.

45. The telecommunication system of claim 27, wherein said communication comprises voice telephony.

46. The telecommunication system of claim 27, wherein said network comprises an ATM network.

47. The telecommunication system of claim 27, wherein said negotiating discipline includes at least one of a round robin, bid-and-ask, bluffing, poker and a reverse auction.

48. The telecommunication system of claim 27, wherein said negotiating discipline terminates said negotiation if said negotiations fail to reach an agreement within a predetermined period of time.

49. A computer-implemented method for negotiating terms of communication between a first user interface and a second user interface connected by a telecommunications network, said method comprising the steps of:

receiving, from a first set of programming code associated with said first user interface, an offer for said terms of communication, said first user interface's offer including said first user interface's requirements for communicating with said second user interface through said network;

verifying said first user interface's offer conforms with a trusted negotiation discipline;

presenting said first user interface's offer to a second set of programming code associated with said network if said first user interface's offer conforms with said discipline;

receiving, from said second set of programming code, another offer for said terms of communication, said another offer including at least said network's available resources for said communication, and including a modification of said first user interface's offer;

returning said another offer to said first set of programming code if said another offer conforms with said discipline;

repeating the foregoing steps if said offers conform with said discipline; and,

terminating said negotiating if any one of said offers and counteroffers fail to converge according to said negotiation discipline.

50. The method according to claim 49, wherein said trusted negotiating discipline is selectable by a user of said first user interface from a plurality of negotiating disciplines.

51. The method according to claim 49, wherein said requirements include the available hardware resource.

52. A user interface comprising:

a user-input hardware resource for receiving an input of a communication from a user;

a user-output hardware resource for presenting an output of said communication to said user;

a computer processing hardware resource for executing a software application that processes said input from said user-input hardware resource and processes said output to said user-output hardware resource; and,

a connection means for connecting said computer processing hardware resource to a second user interface via a network, said connecting means further for connecting to at least one computer processor and electronic memory means that is operable to execute a first set of programming code for determining said user interface's requirements for conducting said communication with said second user interface, said first set of programming code further for negotiating terms of said communication with a second set of programming code that determines available network resources of said network, the negotiation between said first set of

programming code and said second set of programming code (20) managed by a third set of programming code that bases said negotiation on a trusted negotiating discipline.

53. The user interface of claim 52, wherein said trusted negotiating discipline is selectable by a user of said first user interface from a plurality of negotiating disciplines.

54. The user interface of claim 52, wherein said requirements include the available hardware resources of said first user interface.

55. The user interface of claim 52, wherein said requirements include the network resources needed by an application executing on said user interface.

56. The user interface of claim 55, wherein said application comprises voice telephony.

57. The user interface of claim 52, wherein requirements include the costs that are to be assessed to said first user interface during said communication.

58. The user interface of claim 52, wherein said available network resources include presently available network resources.

59. The user interface of claim 52, wherein said available network resources include a cost of the network resources to be consumed during said communication.

60. The user interface of claim 52, wherein said available network resources include a prediction of network usage during said communication.

61. The user interface of claim 52, wherein said first set of programming code is implemented using a software agent programmed with instructions that represent the interests of said first user interface.

62. The user interface of claim 52, wherein said third set of programming code is implemented as a negotiation manager software agent.

63. The user interface of claim 52, wherein said second set programming code is implemented as a single network software agent.

64. The user interface of claim 52, wherein said second set of programming code is implemented as multiple network software agents, each network software agent being respective to a different telecommunication service provider.

65. The user interface of claim 52, wherein said communication is voice telephony.

66. The user interface of claim 52, wherein said network comprises an ATM network.

67. The user interface of claim 52, wherein said negotiating discipline includes at least one of a round robin, bid-and-ask, bluffing, poker and a reverse auction.

68. The user interface of claim 52, wherein said negotiating discipline terminates said negotiation if said

negotiations fail to reach an agreement within a predetermined period of time.

69. A telecommunication network comprising:

an interconnection means to connect a first user interface with a second user interface, said interconnection means operable to consume a variable amount of network resources;

a computer processing hardware resource for executing a software application that processes a communication between said first user interface and said second user interface through said interconnection means;

a connection means for connecting said computer processing hardware resource to at least one computer processor and electronic memory means that is operable to execute a network set of programming code for determining an available amount network resources, said network set of programming code further for negotiating terms of said communication with a second set of programming code that determines requirements for

said communication of at least said first user interface, the negotiation between said network set of programming code and said second set of programming code managed by a third set of

programming code that bases said negotiation on a trusted negotiating discipline.

70. The telecommunication network of claim 69, wherein said trusted negotiating discipline is selectable by a user of said first user interface from a plurality of negotiating disciplines.

71. The telecommunication network of claim 69, wherein said requirements include the available hardware resources of said first user interface.

72. The telecommunication network of claim 69, wherein said requirements include the network resources needed by an application executing on said user interface.

73. The telecommunication network of claim 69, wherein said application comprises voice telephony.

74. The telecommunication network of claim 69, wherein requirements include the costs that are to be assessed to said first user interface during said communication.

75. The telecommunication network of claim 69, wherein said available network resources include presently available network resources.

76. The telecommunication network of claim 69, wherein said available network resources include a cost of the network resources to be consumed during said communication.

77. The telecommunication network of claim 69, wherein said available network resources include a prediction of network usage during said communication.

78. The telecommunication network of claim 69, wherein said first set of programming code is implemented using a software agent programmed with instructions that represent the interests of said first user interface.

79. The telecommunication network of claim 69, wherein said third set of programming code is implemented as a negotiation manager software agent.

80. The telecommunication network of claim 69, wherein said second set programming code is implemented as a single network software agent.

81. The telecommunication network of claim 69, wherein said second set of programming code is implemented as multiple network software agents, each network software agent being respective to a different telecommunication service provider.

82. The telecommunication network of claim 69, wherein said communication comprises voice telephony.

83. The telecommunication network of claim 69, wherein said network comprises an ATM network.

84. The telecommunication network of claim 69, wherein said negotiating discipline includes at least one of a round robin, bid-and-ask, bluffing, poker and a reverse auction.

85. The telecommunication network of claim 69, wherein said negotiating discipline terminates said negotiation if said

negotiations fail to reach an agreement within a predetermined period of time.

86. An apparatus for managing a network comprising:

a connection means to connect to a telecommunication network and a to connect to a first user interface that is seeking to establishing an interconnection with a second user interface via said telecommunication network; and,

a computer processor and electronic memory means attached to said connection means that is operable to execute a negotiation-management set of programming code that manages a negotiation between a first-user interface set of programming code and a network set of programming code, said first-user interface set of programming code for determining said first user interface's requirements for communicating with said second user interface and representing said first-user interface's interests during said negotiation, said network set of programming code for determining available network resources and representing said set network's interests during said negotiation, said negotiation-management set of programming code basing said negotiation on a trusted negotiating discipline.

87. The apparatus according to claim 86, wherein said connection means is further operable to connect to said second user interface and said negotiation-management set of programming code manages said negotiation so as to include a second-user interface set of programming code for determining said first user interface's requirements for communicating with said first user interface and representing said first-user interface's interests during said negotiation.

88. The apparatus according to claim 86, wherein said trusted negotiating discipline is selectable by a user of said first user interface from a plurality of negotiating disciplines.

89. The apparatus according to claim 86, wherein said requirements include the available hardware resources of said first user interface.

90. The apparatus according to claim 86, wherein said requirements include the network resources needed by an application executing on said user interface.

91. The apparatus according to claim 86, wherein said wherein said application comprises voice telephony.

92. The apparatus according to claim 86, wherein said requirements include the costs that are to be assessed to said first user interface during said communication.

93. The apparatus according to claim 86, wherein said available network resources include presently available network resources.

94. The apparatus according to claim 86, wherein said available network resources include a cost of the network resources to be consumed during said communication.

95. The apparatus according to claim 86, wherein said available network resources include a prediction of network usage during said communication.

96. The apparatus according to claim 86, wherein said first user-interface set of programming code is implemented using

a software agent programmed with instructions that represent the interests of said first user interface.

97. The apparatus according to claim 86, wherein said network-management set of programming code is implemented as a negotiation manager software agent.

98. The apparatus according to claim 86, wherein said network set programming code is implemented as a single network software agent.

99. The apparatus according to claim 86, wherein said network set of programming code is implemented as multiple network software agents, each network software agent being respective to a different telecommunication service provider.

100. The apparatus according to claim 86, wherein said communication comprises voice telephony.

101. The apparatus according to claim 86, wherein said network comprises an ATM network.

102. The apparatus according to claim 86, wherein said negotiating discipline includes at least one of a round robin, bid-and-ask, bluffing, poker and a reverse auction.

103. The apparatus according to claim 86, wherein said negotiating discipline terminates said negotiation if said negotiations fail to reach an agreement within a predetermined period of time.

104. The apparatus according to claim 86, wherein said negotiation comprises initiating said communication.

105. The apparatus according to claim 86, wherein said communication is ongoing and said negotiation is for modifying terms of an said existing communication.

REMARKS

Consideration and allowance of the subject application are respectfully requested.

Claims 27-105 are pending in the application. Claims 27, 49, 52, 69, and 86 are independent.

In view of the above amendments and remarks, it is believed that this application is now in condition for allowance and a Notice thereof is respectfully requested.

INFORMATION DISCLOSURE STATEMENT

In compliance with the duty of disclosure under 37 C.F.R. § 1.56 and in accordance with the practice under 37 C.F.R. §§ 1.97 and 1.98, the Examiner's attention is directed to the documents listed on the enclosed Form PTO-1449. Copies of the listed documents are also enclosed.

CONCLUSION

It is respectfully requested that the below-listed information be considered by the Examiner and that a copy of the enclosed Form PTO-1449 be returned indicating that such information has been considered.

Applicants' undersigned attorney may be reached in our Washington, D.C. office by telephone at (202) 625-3500. All correspondence should continue to be directed to our address given below.

Respectfully submitted,


Attorney for Applicants

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